

Contribution to the coreid bugs (Heteroptera, Coreidae) of coastal ecotones of the Middle-Russian Wood-and-Steppe

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Kondrateva, A. M., Golub, V. B. & Aksenenko, E. V. Contribution to the coreid bugs (Heteroptera, Coreidae) of coastal ecotones of the Middle-Russian Wood-and-Steppe. Abstract. List of 8 coreid species of coastal ecotones of the Middle-Russian wood-and-steppe is provided. Materials are collected in Voronezh, Lipetsk and Belgorod Regions during 2004–2011. Ecological data and types of areal of all species are provided.

Key words: Heteroptera, Coreidae, leaf-footed bugs, ecotones.

Кондратьєва, А. М., Голуб, В. Б. і Аксєненко, Е. В. До вивчення клопів-крайовиків (Heteroptera, Coreidae) навколводних екотонів середньоруського лісостепу. Резюме. Наведено список 8 видів крайовиків навколводних екотонів Середньоруського Лісостепу, зібраних у Воронезькій, Липецькій та Білгородській областях у 2004–2011 рр. Подано відомості про екологічні особливості видів та наведено типи їх ареалів.

Ключевые слова: Heteroptera, Coreidae, крайовики, екотони.

Кондратьєва, А. М., Голуб, В. Б. и Аксєненко, Е. В. К изучению клопов-краевиков (Heteroptera, Coreidae) околводных экотонів среднерусской лесостепи. Резюме. В статье приводится список 8 видов краевиков прибрежных экотонів Среднерусской Лесостепи, собранных в Воронежской, Липецкой и Белгородской областях в 2004–2011 гг. Даны сведения об экологических особенностях видов и указаны типы их ареалов.

Ключевые слова: Heteroptera, Coreidae, клопы-краевики, экотоны.

Coreidae, a widespread family of leaf-footed bugs (Heteroptera), includes about 500 genera and 2200 species. 306 species of 84 genera are known in the Palaearctic Region (Dolling, 2006). All coreids are phytophagous species. Some species are serious pests of crops (Dolling, 2006; Vinokurov et al., 2010).

This study is the first special report on the fauna of the family Coreidae of coastal ecotones of the wood-and-steppe of European Russia and contains information on collection localities, ecology and habitats of coreids.

Material and methods

Insects were collected during vegetation periods of 2004 to 2011 in coastal ecotones of the Voronezh,

Belgorod and Lipetsk Regions. 856 specimens of coreids were collected on the borders of two different biotopes (river floodplains, along the shores of ponds, lakes and forest swamps) in this period. Most insects were collected on grasses by the method of entomological sweeping.

Bugs were collected in the following localities of the Voronezh region: environs of Stupino (33 km NE Voronezh), environs of Borisoglebsk, the biological Center “Venevitinovo” of Voronezh State University (20 km NNE Voronezh), environs of Voronezh, Voronezh State Nature Biosphere Reserve, Khopersky State Nature Reserve, environs of Rozhnov (22 km SW Novokhopersk), environs of Novokhopersk; in the Lipetsk Region: Nature Reserves “Galichya Gora” (45 km W Lipetsk), environs of Afanasyevo

(94 km W Lipetsk); in the Belgorod Region: environs of Borisovka, (37 km W Belgorod) (fig. 1).

The following abbreviations are used in the paper text: VR — Voronezh Region; BR — Belgorod Region; LR — Lipetsk Region; env. — environs of; specimens — specimen (s); VSNBR — Voronezh State Nature Biosphere Reserve; NRGG — Nature Reserves “Galichya Gora”; KSNR — Khopersky State Nature Reserve.



Fig. 1. Schematic map of the studied territory. VR: 1 — VSNBR, 2 — env. Stupino, 3 — Venevitinovo, 4 — env. Voronezh, 5 — env. Borisoglebsk, 6 — KSNR, 7 — env. Novokhopersk, 8 — env. Rozhnov; LR: 9 — NRGG, 10 — env. Afanasevo; BR: 11 — env. Borisovka.

The information on inhabited biotopes and trophic specializations of collected species is based on our observations and literature data (Putshkov, 1962). The areal types of species correspond to those proposed by A. F. Emeljanov (1974).

Results

Eight coreids species in the coastal ecotones in the Central Russian wood-and-steppe are revealed. A list of coreids species of the investigated territory is given.

Family Coreidae Leach, 1815

Subfamily Pseudophloeinae Stål, 1868

Tribe Pseudophloeini Stål, 1868

Bathysolen nubilus (Fallén, 1807)

Literature. Korinek, 1940; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 29.05.2011 (1 specimen).

Ecology. Herbicolous and terricolous; mesophilous; wide oligophagous.

Distribution. Panatlantic; boreal-subtropical.

Ceraleptus gracilicornis (Herrich-Schaeffer, 1835)

Literature. Putshkov, 1964; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 13.06.2010 (1 specimen). Env. Borisoglebsk, 2.07.2010 (2 specimens).

Ecology. Herbicolous; mesophilous; wide oligophagous.

Distribution. Western Palaearctic; subboreal-subtropical.

Coriomeris denticulatus (Scopoli, 1763)

Literature. Korinek, 1940; Putshkov, 1962; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 6.06.2007 (3 specimens), 14.06.2008 (1 specimens), 24.06.2010 (1 specimen), 29.05.2011 (2 specimens). KSNR, 29.06.2006 (1 specimen).

Ecology. Herbicolous; mesophilous; wide oligophagous.

Distribution. Western Palaearctic; subboreal-subtropical.

Ulmicola spinipes (Fallén, 1807)

Literature. Korinek, 1940; Golub, Drapolyuk, 2005.

Material examined. VR: KSNR, 26.06.2006 (1 specimen).

Ecology. Herbicolous; mesophilous; wide oligophagous.

Distribution. Superatlantic; boreal-subtropical.

Subfamily Coreinae Leach, 1815

Tribe Coreini Leach, 1815

Coreus marginatus (Linnaeus, 1758)

Literature. Korinek, 1940; Putshkov, 1962; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 8.07.2004 — 16.07.2004 (16 specimens), 13.07.2005 (1 specimen), 22.05.2006 — 22.07.2006 (15 specimens), 30.05.2007 — 7.07.2007 (68 specimens), 4.06–27.09.2008 (86 specimens), 9.05–16.08.2009 (24 specimens), 7.05–17.07.2010 (216 specimens), 29.05–6.08.2011 (224 specimens). Env. Voronezh, 23.05.2007 (3 specimens), 4.10.2008 (1 specimen), 1.05.2009 (1 specimen). Env. Stupino, 12.08.2004 (3 specimens), 11.08.2006 (5 specimens). VSNBR, 7.06.2008 (3 specimens). Env. Rozhnov, 25.07.2009 (1 specimen). Env. Novokhopersk, 26.07.2009 (10 specimens). KSNR, 23.06–29.06.2006 (33 specimens). Env. Borisoglebsk, 1.07–5.07.2010 (60 specimens). BR: Env. Borisovka, 10.08.2009 (2

specimens). **LR:** Env. Afanasevo, 17.08.2008, 12.07.2009, 13.09.2009 (9 specimens). **NRGG,** 3–6.08.2008 (5 specimens).

Ecology. Herbicolous; mesophilous; wide oligophagous.

Distribution. Transpalearctic; boreal-subtropical.

Enoplops scapha (Fabricius, 1794)

Literature. Korinek, 1940; Kiritshenko, 1951; Putshkov, 1962; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 13–29.06.2011 (6 specimens). **KSNR,** 23.06.2006 (1 specimen). **LR:** Env. Afanasevo, 1.05.2010 (1 specimen).

Ecology. Herbicolous; mesophilous; polyphagous.

Distribution. Western Palearctic; boreal-subtropical.

Spathocera laticornis (Schilling, 1829)

Literature. Korinek, 1940; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 21.06.2007 (2 specimens), 14.06.2008 (3 specimens), 24.07.2009 (6 specimens), 14–23.06.2010 (14 specimens), 29.05.2011 — 26.06.2011 (11 specimen).

Ecology. Herbicolous; mesophilous; narrow oligophagous.

Distribution. Panatlantic; subboreal-subtropical.

Syromastes rhombeus (Linnaeus, 1767)

Literature. Korinek, 1940; Kiritshenko, 1951; Putshkov, 1962; Golub, Drapolyuk, 2005.

Material examined. VR: Venevitinovo, 21.07.2006 (2 specimens), 11.06.2007, 7.08.2007 (3 specimens), 19.07.2009 (1 specimen), 9.06.2010 (1 specimen), 30.06.2011 (2 specimens). **KSNR,** 28.06.2006 (1 specimen). **Env. Rozhnov,** 25.07.2009 (1 specimen). **BR:** Env. Borisovka, 10.08.2009 (2 specimens).

Ecology. Herbicolous; mesoxerophilous; polyphagous.

Distribution. Panatlantic; boreal-subtropical.

All revealed species are widely distributed and inhabit the herbaceous vegetation tier, while one of them lives in the vegetable detritus near of plant roots also. Coreids of the investigated territory include 3 phytophagous groups, oligophagous species is a main one. Most of the listed species prefer moist habitats. All studied species have wide latitudinal and longitudinal distributions (transpalearctic, superatlantic, panatlantic and western palaeartic superatlantic; subboreal- or boreal-subtropical types areas).

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